

LABORTOPS

valid until 31.12.2021

Pipette controller accu-jet[®] S



- Precise volume adjustment
- One-hand operation
- Integrated rest position



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Single channel microliter pipettes LLG-proMLP



- Precise and reliable pipette
- Extremely smooth-running
- Made in France!



- High quality **Made in France**
- High accuracy, reliability and reproducibility
- Extremely light weight while the robustness still remains
- Perfect ergonomics for highest comfort
- Colour-coded push-button for quick operation
- Extremely low pipetting forces
- **Built-in volume locking** for error-free results
- **Tip ejector button***, adjustable for right- and left-handed users
- Completely autoclavable at 121 °C
- Including individual calibration certificate (according to EN ISO 8655)

*not available for 5 ml and 10 ml pipettes

Scope of supply: microliter pipette, calibration tool



Capacity	Increments	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Colour code	PK	Cat. No.
µl	µl					
0.2-2	0.002	1.65	0.75	dark orange	1	6270420*LLG
0.5-10	0.02	1.10	0.44	red	1	6270421*LLG
2-20	0.02	1.00	0.33	light yellow	1	6270422*LLG
10-100	0.2	0.80	0.17	light orange	1	6270423*LLG
20-200	0.2	0.80	0.17	dark yellow	1	6270424*LLG
100-1000	2	0.80	0.17	dark blue	1	6270425*LLG
500-5000	2	0.66	0.18	purple	1	6270426*LLG
1000-10000	20	0.60	0.18	light blue	1	6270427*LLG

Pipette stands Flip & Grip™ for single and multi-channel microliter pipettes



The flexible and space-saving solution for your laboratory. For 12 single-channel pipettes or the combination of 3 single-channel and 3 multichannel pipettes. Suitable for pipettes of the most common brands. Includes a mounting screw for installation under a shelf or inside the workbench.
Dimensions (W x H) : 193 x 332 mm for use on the work surface and 193 x 187 mm for overhead mounting.

Colour	PK	Cat. No.
Blue	1	9194002*LLG

LLG-Disposable Reagent reservoirs economy, PS



Made from polystyrol. Angled sides and a V-shaped bottom allow maximum recovery of reagents. All reservoirs have internal graduated volume lines and pour-spouts on the corners. 25 ml or 50 ml versions. Available as sterile and non-sterile versions. DNase-, RNase- and pyrogen-free certified

Description	Capacity	PK	Cat. No.
	ml		
non-sterile, bulk	25	100	6282144*LLG
sterile, single packed	25	100	6282145*LLG
non-sterile, bulk	50	100	6282146*LLG
sterile, single packed	50	100	6282147*LLG

Macropipette controllers "Pi-Pump"

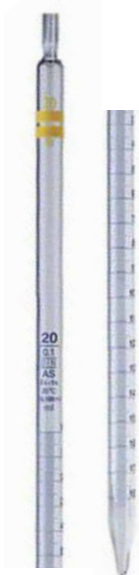


ISOLAB
Laborgeräte GmbH

The handwheel allows precise suction of the liquid into the pipette with one hand. When the wheel stops, the piston remains in the desired position. The liquid can be blown out by pressing the piston back or allowed to flow out by setting the lateral switch to "Ex".

For	PK	Cat. No.
Pipette volume up to 2 ml	1	4008322*LLG
Pipette volume up to 10 ml	1	4008323*LLG
Pipette volume up to 25 ml	1	4008324*LLG

LLG-Graduated pipettes, soda glass, class AS, type 3



LLG
LABWARE

- DIN EN ISO 835, DIN 12699
- Conformity-certified
- With batch date identification
- Calibrated to deliver (EX)
- Ring marks and graduations in permanent blue enamel

Nominal capacity	Graduations	Tolerance	Length	PK	Cat. No.
ml	ml	± ml	mm		
1	0.01	0.007	360	10	6272200*LLG
2	0.02	0.01	360	10	6272201*LLG
5	0.05	0.03	360	10	6272202*LLG
10	0.1	0.05	360	10	6272203*LLG
20	0.1	0.1	450	10	6272204*LLG
25	0.1	0.1	450	10	6272205*LLG
50	0.1	0.2	720	10	6272206*LLG

Pipette controller accu-jet® S



BRAND

NEW



- Precise pipetting
- Adjustable motor speed
- Service-friendly and sustainable



For precise pipetting of large and small volumes. The adjustable motor speed allows to switch between free flow and rapid blow-out of the liquid.

- One-hand operation
- For glass and plastic pipettes from 0.1 to 200 ml
- Precise volume setting
- Integrated rest position
- Valve system for exhaust liquid vapours
- Membrane filter and safety valve to protect against fluid penetration
- Robust, powerful motor for fast filling times (25 ml in 3 seconds)
- 8 hours of continuous pipetting with a 10 ml pipette without recharging
- Two-colour battery charge indicator
- Service-friendly and sustainable

Environmental benefits:

Sustainable packaging: Cardboard with approx 90 % recycled content
Renewable energy: Production using 100 % eco-friendly energy from certified hydro-electric power plants and energy generated on the premises as surplus from a cogeneration unit

Scope of supply:

Pipette controller accu-jet® S, nickel-metal hydride battery, universal adapter (100 - 240 V, 50/60 Hz), wall support, 2 sterile spare membrane filters (0.2 µm)

Colour	PK	Cat. No.
anthracite	1	4682331*LLG
berry	1	4682332*LLG
petrol	1	4682333*LLG
amethyst	1	4682334*LLG

Zipper bags



AS ONE

- Stand-up bag with bottom gusset
- Aluminium composite film made of PET, SPE, AL, SPE and PE (5-layer structure)
- Very good barrier properties against water vapor and oxygen
- Opaque
- Protection against the influence of UV radiation
- Temperature range: -40 °C ... 90 °C

Dimensions (D x W)	Thickness	PK	Cat. No.
mm	mm		
90 x 115	0,11	50	4665050*LLG
100 x 160	0,11	50	4665051*LLG
110 x 170	0,11	50	4665060*LLG
120 x 180	0,11	50	4665052*LLG
130 x 190	0,11	50	4665061*LLG
140 x 200	0,11	50	4665053*LLG
150 x 210	0,11	50	4665062*LLG
160 x 230	0,11	50	4665056*LLG
180 x 260	0,11	50	4665057*LLG
200 x 280	0,11	50	4665058*LLG
220 x 300	0,15	50	4665059*LLG
240 x 340	0,15	50	4665063*LLG
300 x 420	0,15	25	4665054*LLG
340 x 480	0,15	25	4665055*LLG

High Precision Tweezer kit, 5-parts, stainless steel

ideal-tek



High Precision Tweezers Kit, swiss made, high quality finish, anti-magnetic and acid resistant stainless steel in a solid cardboard box with foam insert, including 5 forceps:

- 120 mm, flat edges, fine tips (1 x 6.266 873)
- 120 mm, flat, accurate, round tips (1 x 6.266 874)
- 110 mm, very sharp, fine tips (1 x 6.266 875)
- 110 mm, extra fine tips (1 x 6.266 876)
- 115 mm, very fine, 45° curved tips (1 x 6.266 877)

Description	PK	Cat. No.
High Precision forceps kit, 5-parts	1	9160124*LLG

Pressure atomizer LaboPlast®, HDPE

burkle

The pressure sprayer is ideal to spray a wide range of liquids uniformly. The pressurised spray has a working pressure of 4 bar. Extension for spray lance 30 cm available as accessory.

- Wetted parts PE, PP, glass-fibre reinforced PA, V2A, FKM
- Bottle made of HDPE
- With short spray nozzle
- Left-handed and right-handed pistol control
- Adjustable spray jet
- Graduation up to 1500 ml
- Temperature max. 30 °C



Capacity	Ext. diam.	Neck diam.	Height	Weight	PK	Cat. No.
ml	mm	mm	mm	g		
1500	142	45	315	475	1	9223162*LLG

Accessories for pressure atomizer

Type	PK	Cat. No.
Spray lance extension, 300 mm long	1	9223165*LLG

LLG-Assortment box, PS



LLG
LABWARE



Made of clear polystyrene. Ideal for storing small laboratory items, such as magnetic stirring bars.

- Ten compartments of 32 x 50 x 27 mm (W x D x H)
- Food safe
- Temperature resistant from -20 °C up to 70 °C

Width	Depth	Height	PK	Cat. No.
mm	mm	mm		
170	105	32	1	6311019*LLG

Bottle-top dispensers Calibrex™ organo 525

Calibrex™ *organo* 525 models include a ground glass plunger, best suited for organics, non-crystallizing acid and base solutions.

- 45 mm base thread
- Integrated calibration system
- Autoclavable at 121 °C fully assembled
- Recycle valve

Scope of delivery: Delivery jet and stopper, feed tube, 3 alternative adapters (25, 28, 32 mm for 1 and 2.5 ml versions; 28, 32, 40 mm for 5 and 10 ml version; 32, 38, 40 mm from 25 ml onwards), QC certificate and operating instructions



- **Excellent chemical resistance**
- **Permanent view of the liquid course**

Volume ml	Graduations ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.1 - 1	0.02	0.6	0.17	1	6281539*LLG
0.25 - 2.5	0.05	0.6	0.17	1	6281540*LLG
0.5 - 5	0.1	0.6	0.1	1	6281541*LLG
1 - 10	0.2	0.6	0.1	1	6281542*LLG
2.5 - 25	0.5	0.6	0.1	1	6261218*LLG
5 - 50	1.0	0.6	0.1	1	6261219*LLG
10 - 100	1.0	0.6	0.1	1	6261220*LLG

Laboratory bottles, DURAN®, with retrace code and screw cap



With blue PP screw cap and pouring ring.

Capacity ml	Diam. mm	Height with cap mm	Neck thread mm	GL	PK	Cat. No.
25	36	74	25		10	218011453*SCHOTT
50	46	91	32		10	218011753*SCHOTT
100	56	105	45		10	218012458*SCHOTT
250	70	143	45		10	218013651*SCHOTT
500	86	181	45		10	218014459*SCHOTT
1000	101	230	45		10	218015455*SCHOTT
2000	136	265	45		10	218016357*SCHOTT

Bottle top burette Titrette®

For fast and reliable titration with the highest precision even when space is limited and independent of the power supply - in the laboratory, in production or on the road.



- High accuracy
- Smooth-running gear for drop-by-drop titration and fast filling of the instrument
- Easy handling, no switching between filling and titrating necessary

Items supplied: Titrette® bottle-top burette, DE-M marking, performance certificate, telescoping filling tube (170 to 330 mm), recirculation tube, 2 x 1.5 V batteries (AAA/UM4/LR03), 4 x PP bottle adapters (GL45/32, GL 45/38, GL 45/S40 and GL32/NS 29/32), 2 coloured light shield inspection windows, operating manual, Incl. performance certificate.



- **High accuracy**
- **Compact design, lightweight and stable**
- **Easy maintenance and cleaning**

Volume ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
10	0.10	0.05	1	6259209*LLG
25	0.07	0.025	1	9271332*LLG
50	0.06	0.02	1	9271333*LLG

Bottle carrier, PP



For 6 bottles up to max. diam. 95 mm. Food-safe.

Array	External dimensions (W x D x H) mm	PK	Cat. No.
6	210 x 305 x 310	1	6076356*LLG

pH and redox meter pH 3110 ProfiLine



- **Auto-Read function for high measurement accuracy**
- **3-point calibration**
- **Integrated calibration timer**

Simple and functional pH/Redox measuring device with simplified keyboard for clear and safe operation. Easy operation virtually eliminates errors. All function keys of the 3110 can be operated even when wearing gloves; automatic calibration and AutoRead functions ensure stable and reproducible results. The multifunctional display for pH, mV and temperature is always easy to read.

Measuring ranges

pH:	-2.0 ... 20.0
	-2.00 ... 20.0
	-2.000 ... 19.999
Accuracy:	±0.01 (±1 digit)
	±0.005 (15 °C ... 35 °C)
mV/Accuracy:	±1200.0/±0.3
	±2000/±1
Temperature:	-5.0 °C ... 105.0 °C
Accuracy:	±0.1 °C
Temperature compensation:	Automatic via pH electrodes with integral temperature probe, TFK 325 or Pt1000

Type	Description	PK	Cat. No.
pH 3110	Meter only	1	9774367*LLG
pH 3110 Set 2	Case set including SenTix® 41 and accessories	1	9774354*LLG

pH buffer solutions, 5 litre storage pack



Clear or coloured pH buffer solutions. Supplied in convenient Bag in Box with dispensing tap. Tested and ISO 17025 certified at 20 °C. Uncertainty of measurement ±0.01 pH. Supplied with a detailed Certificate of Analysis which outlines traceability to N.I.S.T. Temperature dependence data is printed on the label as are lot numbers and expiry dates.

pH-value	Accuracy	Colour	Capacity	PK	Cat. No.
at 20 °C	(±)		ml		
4.00	0.01	Red	5000	1	BPH01*REA
7.00	0.01	Yellow	5000	1	BPH03*REA
10.00	0.01	Blue	5000	1	BPH05*REA

LLG-Universal Indicator strips "Premium", in vial with snap lid



The LLG pH indicator strips offer convenient handling for every laboratory. The snap-on lid connected to the can is easy to open and close with one hand.

- No bleeding of the indicator substance:
No contamination of the sample.
- 100 strips per can

Range	Package contents	PK	Cat. No.
pH			
0 ... 14	100 strips per vial with snap lid	100	9129808*LLG

Tester Expert pH

Thermo
SCIENTIFIC



Simultaneously measure pH and temperature with a pocket sized tester designed to provide accurate measurements on the go for a variety of applications.

- Large 4 digit double line display
- Display of battery life, status and recalibration
- Automatic temperature compensation (ATC)
- Automatic buffer recognition and calibration
- Auto-power off

Specifications

pH range:	0 ... 14
Resolution:	0.1
Accuracy:	±0.1
pH calibration points:	1 ... 3 points
Temperature range:	0 ... 50 °C
Resolution:	0.1 °C
Accuracy:	±0.5 °C + 1 digit
Operating temperature:	5 ... 45 °C
Dimensions (W x L x H):	43 x 170 x 30 mm
Weight:	90 g
Power supply:	Incl. 4 batteries (A76 or LR44 equivalent)
IP code:	IP 67
Warranty:	1 year

Type	PK	Cat. No.
Expert	1	6284896*LLG

LLG pH electrode with gel electrolyte



Low maintenance combination electrode with integrated temperature sensor, robust plastic shaft and gel electrolyte.

Specifications

Temperature range:	0 ... 80 °C
pH range:	0 ... 14
Temperature sensor:	NTC 30 kΩ
Electrolyte:	Gel
Length/Ø:	120/12 mm
Cable length:	1 m

Type	Connector	Diaphragm	PK	Cat. No.
LLG-pH electrode	DIN + 4 mm Banana	Fibre	1	4681924*LLG
LLG pH electrode	BNC + 3 mm Cinch	Ceramic	1	6263602*LLG

Laboratory instrument inoLab® pH 7110



Basic pH/mV laboratory instrument for all tasks are reliable, accurate readings are quickly and easily. With large LCD segment display and easy-to-read keyboard. The AutoRead function ensures correct and repeatable measurement results. A built-in timer reminds the user of periodical calibration.

Scope of supply: Instrument, mains power adapter, stand

Specifications

Ranges:	All values ±1 digit
pH:	-2.0 ... 20.0 ±0.1 pH -2.00 ... 20.00 ±0.01 pH -2.000 ... 19.999 ±0.005 pH ±(1200.0 ±0.3) mV ±(2000 ±1) mV
mV:	±(2000 ±1) mV
Calibration:	1-, 2- or 3 point WTW technical buffer or DIN/NIST
Temperature:	-5.0 ... 105.0 °C ±0.1 °C
Power supply:	Universal power supply 100 to 240 V, 50/60 Hz, 4 x 1.5 V AA or 4 x 1.2 V NiMH rechargeable batteries

Type	Description	PK	Cat. No.
pH 7110	Stand-alone instrument with DIN connection	1	9920090*LLG
pH 7110 SET 2	Instrument incl. SenTix® 41, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9920091*LLG
pH 7110 SET 4	Instrument incl. SenTix® 81, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9920092*LLG

LLG-Electrode stand for 3 electrodes



With cable duct. For three electrodes, 3 openings with diam. 16 mm. Additional opening for temperature sensor. Three joints for high flexibility and adjustment options.

Base plate:	105 x 125 mm
Base plate weight:	0.7 kg
Arm weight:	0.1 kg
Max. arm height:	320 mm

Type	PK	Cat. No.
LLG-Electrode stand	1	6286248*LLG

Portable gas detectors series 04



in assortment!



- Visual and acoustic alarm
- Operating times between 3,000 and 9,000 hours

Portable gas monitors to detect gases in the surrounding atmosphere. They measure concentrations of toxic gases and oxygen in the atmosphere and issue an alarm when gas concentrations reach preset levels. The alarms are indicated by flashing lamp, intermittent audible buzzer, flashing gas concentration readout and vibration.

- LCD display
- CO-sensor with H₂-reduction
- Robust construction
- Water- and dust-proof
- Battery or rechargeable battery operation

Specifications

Gas alarm:	STEL Alarm, TWA Alarm, Over
Alarm volume:	80 db
Humidity:	0 ... 95 % RH (OX-04G: 10 ... 90 % RH)
Detection principle:	Electrochemical type (OX-04G: galvanic cell type)
Dimensions (W x D x H):	54 x 24 x 67 mm
Weight:	93 g
Power supply:	2 x AAA alkaline batteries
Protection class:	IP 66/67
Warranty (sensor):	3 years (OX-04G: 1 year)

Type	For	Measuring range	Resolution	PK	Cat. No.
OX-04G	O ₂	0 ... 25 %	0,1 %	1	6317139*LLG
OX-04	O ₂	0 ... 25 %	0,1 %	1	6317137*LLG
HS-04	H ₂ S	0 ... 30 ppm	1 ppm	1	6317145*LLG
CO-04	CO	0 ... 500 ppm	10 ppm	1	6317141*LLG
CO-04 (C-)	CO	0 ... 500 ppm	10 ppm	1	6317143*LLG
CX-04	CO + O ₂	CO: 0 ... 500 ppm/ O ₂ : 0 ... 25 %	CO: 10 ppm/ O ₂ : 0,1 %	1	6317147*LLG
SC-04	SO ₂	0 ... 20 ppm	0,05 ppm	1	6317149*LLG

Digital thermometer testo 915i Set



The thermometer testo 915i is suitable for wireless temperature measurements in various applications. Quick and easy transmission of measurement data via Bluetooth®. With the free testo Smart App, all measurement data can be logged, temperature curves graphically displayed and results sent as PDF or CSV files.

- 1 measuring channel
- Automatic Bluetooth® connection to smartphones, tablets or testo measuring devices
- Secure fixation of the pluggable measuring probes

Scope of supply: Thermometer 915i, air probe, immersion/penetration probe, surface probe, storage bag testo Smart Case, batteries, calibration protocol



Simple operation, evaluation and documentation

Temperature range

Immersion/penetration probe:	-50 ... 400 °C
Air probe:	-50 ... 400 °C
Surface probe:	-50 ... 350 °C

Accuracy

Immersion/penetration probe:	±1.0 °C (-50 ... 100 °C), ±1 % of measurement value (remaining range)
Air probe:	±1.0 °C (-50 ... 100 °C), ±1 % of measurement value (remaining range)
Surface probe:	±1.0 °C + 1 % of measurement value
Resolution:	0.1 °C
Sensor:	Type K (NiCr-Ni)
Dimensions Thermometer (L x W x H):	129 x 31 x 31 mm
Power supply:	3 x AAA

Description	PK	Cat. No.
testo 915i Set	1	4681906*LLG

LLG-Digital pocket thermometer Type 12060



Measuring range -50 to +150 °C, accuracy ±1 °C. With hold function. Probe made of stainless steel, 125 x 3.5 mm, with protective plastic sleeve and clip, with battery 1 x 1.5 V (LR44). Dimensions (L x W): 60 x 20 mm.

Type	PK	Cat. No.
LLG-Digital pocket thermometer Type 12060	1	9236701*LLG

Melting Point Meter M5000



- Fully automatic
- 1 capillary intake
- Alarm signal when melting point is reached

For powdery substances with a melting point up to 400 °C. A fan cooling allows fast measurements in every range of temperature. The display provides a clearly-arranged readout of all important measuring data.



- Fully automatic measurement by means of transmission optics
- 1 capillary intake
- LCD display
- Alarm signal when reaching the melting point
- Fast cooling through integrated fan
- Digital display of all important data
- Display in German or English
- With RS-232 interface for printer CBM910
- Easy-to-clean membrane keypad

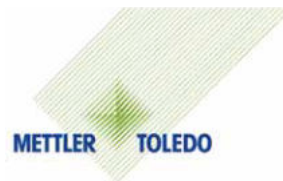
Scope of supply: Melting Point Meter, protective cover, 100 capillaries

Specifications

Temperature range:	25 ... 400 °C
Resolution:	0.1 °C
Accuracy:	±0.3 °C (25 ... 200 °C) ±0.5 °C (200 ... 400 °C)
Preheating rate:	up to 200 °C approx. 4.0 min up to 300 °C approx. 9.0 min
Heating rate:	1 °C min ⁻¹
Capillary-Ø:	1.4 mm
Capillary intake:	1
Dimensions (W x D x H):	220 x 340 x 150 mm
Weight:	4.1 kg
Power supply:	90 ... 264 V
IP code:	IP 20

Type	PK	Cat. No.
M5000	1	6264452*LLG

Density meters Densito



- Automatic suction of the sample
- Memory for up to 1100 measurement results

Robust density meters for mobile use with easy handling and user guidance. Ideal for rapid and accurate routine measurements in quality assurance, incoming and outgoing goods inspection.

- Automatic sampling pump
- Available measurement scales: API, °Baumé, Brix, density, Ethanol, H₂SO₄, proof (US and IP), °Plato, specific gravity, user-defined concentration
- Automatic temperature compensation
- Memory for up to 1100 results
- Backlit measuring cell
- Adjustable limits with customisable colours in the display
- Bright display with good readability

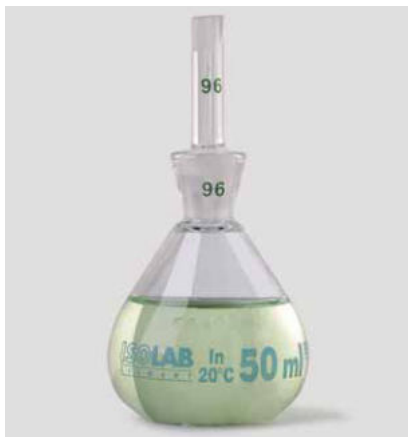


Specifications

Density range:	0 ... 3 g/cm ³
Resolution:	0.0001 g/cm ³
Accuracy:	±0.001 g/cm ³
Sample temperature range:	0 ... 50 °C
Resolution:	0.1 °C
Accuracy:	±0.2 °C
Sample volume:	2 ml
Memory:	1100 samples
Display:	2.4" colour display, backlit
Interfaces:	USB-A, USB-C
Power supply:	Removable and rechargeable Li-Ion batteries

Type	PK	Cat. No.
Densito	1	6291652*LLG

Pycnometers, Borosilicate glass 3.3, calibrated



ISO 3507. Individually calibrated to contain (In) to 0.001 ml. Net volume capacity is engraved on the body. Each bottle is calibrated together with its stopper. In order to differentiate easily, both the body and the stopper have the same code numbers printed on them.

Capacity	PK	Cat. No.
ml		
5	1	4008327*LLG
10	1	6241602*LLG
25	1	4008328*LLG
50	1	6241603*LLG
100	1	4008329*LLG

Thermostatic cabinets



The thermostatic cabinets from Lovibond® preform constant temperature control in different applications, mainly for the determination of BOD, the storage of wastewater samples, and the determination of enzymatic activity. The temperature range is 2 °C up to 40 °C and can be regulated in steps of 0.1 °C. Temperature tolerance is defined with ± 1 °C or at ± 0.5 °C (at 20 °C). The interior of the cabinets is equipped with sockets for connecting stirrers. There are 3 models available with standard doors from 135 to 445 litres net capacity. Illuminated LED display with actual/setpoint display.

- Temperature range 2 °C to 40 °C, continuously adjustable in steps of 0.1 °C
- Low power consumption
- Illuminated LED display of current temperatures
- Optimized for BOD determination at 20 °C
- Power sockets inside the incubator
- 5 models in 3 sizes

Specifications

Coolant: R134a
Fan: Axial, delivery rate 320m³/h
Power supply: 220-230 V/50 Hz

Capacity	External dimensions (W x D x H)	Weight	PK	Cat. No.
l	mm	kg		
135	600 x 600 x 850	39.0	1	9699142*LLG
255	600 x 610 x 1640	61.0	1	9699144*LLG
445	750 x 730 x 1640	78.5	1	9699145*LLG

Freezer boxes B35-50/B35-85, up to -85 °C



B 35-85



Shelf B 35-RS

The cold boxes are small benchtop units for cooling and freezing in all laboratories. Due in particular to its compact space-saving design and the low-noise cooling unit, the cold box is suitable for direct use in the workplace.

- Vacuum-Insulation: large interior space with small external dimensions and low power consumption
- Extremely low noise refrigeration unit
- Models with temperature range -85 °C with two-stage cascade refrigeration system
- with natural refrigerants (R-290, R-170)
- Side air vent, so suitable for installation directly on walls
- Bushing (diameter 10 mm), e.g. for temperature monitoring with external sensors
- Maximum safety, due to mains-independent alarm, battery lasting approx. 72 hours
- Visual and audible signal
- Potential-free contact for connection to an external alarm system
- RS485 interface
- 100 mV/K-output for connection to a temperature recording system
- Lockable insulating door with door frame heating and double magnetic seal with additional sealing surface
- Stackable unit, max. 2 units

Stainless steel shelf B 35-RS: 5 drawers, each for 6 standard cryoboxes (135 x 135 x 52 mm), please order separately.

Specifications

Control accuracy: ± 1 K
Ambient temperature: +12 to +30 °C
Power supply: 230 V/50 Hz

Type	Capacity	External dimensions (W x D x H)	Temp. range	Weight	PK	Cat. No.
	Litres	mm	max. °C	kg		
B 35-50	35	580 x 765 x 540	-50 ... -10	65	1	6284402*LLG
B 35-85	35	580 x 765 x 540	-85 ... -50	81	1	7982609*LLG
Shelf B 35-RS					1	6284406*LLG

Refrigerator thermometers TMX series



TMX 310



TMX 320

Digital minimum/maximum thermometers for monitoring refrigerator temperatures.

- Visual and acoustic alarm when limit values are exceeded
- Three-part display
- Min. /max. and current measured value at a glance
- 3-point calibration option
- Incl. calibration protocol at -20 °C, 0 °C and 60 °C



Specifications

Temperature range external sensor: -50 ... 70 °C
Temperature range internal sensor: 0 ... 50 °C
Resolution: 0.1 °C
Accuracy: -20 ... 40 °C: ± 0.5 °C/ ± 1.0 °C for remaining temperature range
Cable length: 3 m
Housing material: ABS
IP code: IP 20
Dimensions (W x D x H): 100 x 23 x 110 mm
Power supply: 1 x AAA

Type	PK	Cat. No.
TMX 310, with internal and external sensor in glycol bottle	1	4666540*LLG
TMX 320, with internal and external sensor in metal capsule	1	4666541*LLG

Muffle Furnaces Series LE 1/11 - LE 24/11 up to 1100 °C



Nabertherm
MORE THAN HEAT 30-3000 °C

Compact muffle furnaces with dual shell furnace housing made of rust-free stainless steel and heating elements encased in quartz glass tubes.

- Tmax 1100 °C, working temperature 1050 °C
- Heating from two sides from heating elements in quartz glass tubes
- Maintenance-friendly replacement of heating elements and insulation
- Housing made of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- Flap door which can also be used as a work platform
- Equipped with the basic controller R 7 with one free storeable temperature, which is dwelled until the controller is switch off
- Standard power supply 230 V, 1/N/PE, 50/60 Hz

Type/Controller	Capacity	External dimensions (W x D x H) mm	Rating kW	Weight kg	PK	Cat. No.
LE 1/11/R7	1	290 x 280 x 406	1.5	10	1	9764543*LLG
LE 2/11/R7	2	330 x 385 x 406	1.8	10	1	9764537*LLG
LE 6/11/R7	6	390 x 434 x 466	1.8	18	1	9764539*LLG
LE 14/11/R7	14	440 x 534 x 516	2.9	25	1	9764541*LLG
LE 24/11/R7	24	490 x 570 x 585	3.5	42	1	6317868*LLG

External dimensions vary for versions with additional equipment. Dimensions on request.

Safety Gloves, Heat Protection up to 500 °C

EN 388 EN 407



1541 43434X



- 5-finger glove
- Protection against contact heat short term up to 500 °C
- Made of aramide fabric with special insulation
- Usable on both sides
- Abrasion resistant
- 1 pair per pack



Length: 400 mm
EN: 388, 407

Description	PK	Cat. No.
Heat Protection, 5 finger	1	9006893*LLG

Digital dry bath LLG-uniBLOCKTHERM



- Can be used up to 120 °C
- With overheating protection
- Large selection of blocks

Suitable for use in microbiological, histological, clinical, industrial and environmental laboratories. Various types of optional heating blocks are available as accessories for the LLG-uniBLOCKTHERM.

- Digital control with LED display
- Can be used up to 120 °C
- For timer and continuous operation
- Can be used with different heating blocks
- 1 x block unit
- With overheating protection

Scope of supply: LLG-uniBLOCKTHERM, removal tool, lid

Please order heating blocks separately.

Specifications

Temperature range:	RT ... 120 °C
Temperature uniformity:	±0.5 °C
Temperature accuracy:	±0.5 °C
Timer:	0 ... 99:59:00 min
Block material:	Aluminium
Dimensions (W x D x H):	175 x 290 x 85 mm
Weight:	3 kg
Power supply:	220 ... 240 V, 50/60 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniBLOCKTHERM	EU	1	6263460*LLG
LLG-uniBLOCKTHERM	UK	1	6263461*LLG

Accessories for LLG-uniBLOCKTHERM



6263464*LLG



6263469*LLG

Dimensions Heating blocks (W x D x H): 95 x 150 x 50 mm

Description	PK	Cat. No.
Heating block 54 x 0.2 ml	1	6263462*LLG
Heating block 40 x 0.5 ml	1	6263463*LLG
Heating block 40 x 1.5 ml	1	6263464*LLG
Heating block 40 x 2.0 ml	1	6263465*LLG
Heating block 28 x 5/15 ml	1	6263466*LLG
Heating block 8 x 50 ml	1	6263467*LLG
Heating block for 96/384 Microplate	1	6263468*LLG
Heating block for each 18 x 0.2 ml, 0.5 ml and 1.5/2.0 ml	1	6263469*LLG

Heating ovens, series FD - Avantgarde.Line



The drying convection ovens with new design are ease to use, and more efficient with better high temperature accuracy. Thanks to the latest APT.line™ technology.

Equipment:

- Temperature range: room temperature plus 10 °C to 300 °C
- Controller with LCD display
- Electromechanical control of the exhaust air flap
- Class 2 independent temperature safety device (DIN 12880) with visual temperature alarm
- USB port for recording data

The number of shelves included in the scope of delivery is listed in the table.



- **High temperature accuracy**
- **Temperature range up to +300 °C**
- **LCD display**



Type	Nom. capacity	Max. grids	Included grids	External dimensions (W x D x H) mm	Type of auxiliary energy	PK	Cat. No.
FD 56	L 60	4	2	560 x 565 x 625	230 V, 50/60 Hz	1	6280069*LLG
FD 115	116	5	2	710 x 605 x 735	230 V, 50/60 Hz	1	4658060*LLG

LLG-Porcelain evaporating dishes with spout, round bottom, medium form



LLG-Porcelain evaporating dishes with spout, flat bottom, medium form



Glazed.

Capacity ml	Ext. diam. mm	Height mm	DIN	PK	Cat. No.
30	63	25	12903	1	6239177*LLG
60	80	32	12903	1	9115312*LLG
110	96	30		1	9000152*LLG
150	100	40	12903	1	9115313*LLG
240	127	42		1	9000153*LLG
285	125	50	12903	1	9115314*LLG

Glazed.

Capacity ml	Ext. diam. mm	Height mm	PK	Cat. No.
22	54	22	1	7970673*LLG
62	70	30	1	6268802*LLG
93	86	33	1	6251474*LLG
154	98	40	1	6253566*LLG
265	112	50	1	6262379*LLG

Water baths PURA™

Julabo



- **Easy operation**
- **Splash-proof mains switch**
- **Built-in dry-boil protection**

Flexible to use for all purposes in research and quality control. All PURA™ water baths (except PURA™ 4) have an integrated drain screw. The bright, easy-to-read white LED display is clearly visible, even from a distance. With integrated side recessed grips for easy transport and non-slip rubber feet for safe standing. The complete interior surface of the water baths can be used, as there are no installation elements in the interior.

- Including platform
- Integrated timer
- Bright display with membrane keypad
- Splash-proof
- Built-in dry-running protection

Please order bath cover separately.

Working temperature range: 18 ... 99.9 °C
Temperature stability: ±0.15 °C
Power supply: 230 V, 50 ... 60 Hz

Type	Capacity of the bath litres	External dimensions (W x D x H) mm	PK	Cat. No.
PURA™ 4	0.8 ... 4.5	210 x 350 x 220	1	4667880*LLG
PURA™ 10	1.4 ... 9.5	310 x 350 x 220	1	4667881*LLG
PURA™ 14	2.0 ... 14.0	420 x 350 x 220	1	4667882*LLG
PURA™ 22	3.4 ... 25.5	640 x 350 x 260	1	4667883*LLG
PURA™ 30	4.8 ... 36.0	860 x 350 x 260	1	4667884*LLG

Lids for Water baths, PURA™



For model	Description	PK	Cat. No.
PURA™ 4	Hinged bath cover	1	9857931*LLG
PURA™ 10	Hinged bath cover	1	9857932*LLG
PURA™ 14	Hinged bath cover	1	9857933*LLG
PURA™ 22	Hinged bath cover	1	9857934*LLG
PURA™ 30	Hinged bath cover	1	9857935*LLG

Water baths Precision incl. Thermal Beads

Thermo
SCIENTIFIC

The general purpose water baths, Precision, are robust, high performance baths for temperatures up to 100 °C (TSGP02 up to 90 °C). Over-temperature safety circuit is designed to prevent thermal runaway. Benefit from outstanding chemical and corrosion resistance with epoxy powder-coated exterior, and easily clean the chamber with its seamless stainless-steel interior. With timer.

- Advanced microprocessor controller is designed for extended functionality
- Protect your work with audible alarms
- Conveniently save commonly used settings with four temperature presets
- Clear polycarbonate gable cover

Scope of supply:

Bath incl. gable cover, diffuser tray, TSGP02 and TSGP05 with hand pump, all other models with drain hose



- **No water or ice necessary!**
- **Intuitive and easy to set**
- **Timers for automatic preheating and switching off**

Type	Capacity of the bath litres	External dimensions (W x D x H) mm	PK	Cat. No.
TSGP02PM05	2	230 x 199 x 233	1	6290947*LLG
TSGP05PM05	5	246 x 355 x 232	1	6273859*LLG
TSGP10PM05	10	393 x 383 x 233	1	6273860*LLG
TSGP20PM05	20	392 x 555 x 233	1	6273861*LLG
TSGP28PM05	28	392 x 555 x 282	1	6273862*LLG

LLG-Weighting rings



LLG
LABWARE

NEW

Lead core, with vinyl coating. For stabilising glassware in water or oil baths. The coating prevents vessels and apparatus from being scratched or marked.

For flasks ml	Int. diam. mm	PK	Cat. No.
100 ... 500	48	1	4682062*LLG
250 ... 1000	56	1	4682063*LLG
500 ... 2000	61	1	4682064*LLG
1000 ... 4000	74	1	4682065*LLG

Disposable double scoop spatula LaboPlast®/SteriPlast®, PS



Content 1.0 and 0.25 ml. Spatula width 11 mm on one side and 5.7 on the other side. The sturdy and convenient centre handle facilitates precise work.

- SteriPlast®: Individually packed, additionally gamma-sterilized
- Production, assembly and packaging according to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Type	Length mm	Colour	Sterile	PK	Cat. No.
LaboPlast®	180	white	-	100	6284545*LLG
SteriPlast®	180	white	+	100	6284546*LLG

Disposable spoons, curved, long handle, PS



With angled spoon shape.

- Individually packed and optionally sterilised
- Handle length 300 mm
- Cleanroom manufactured (cleanroom class 7)
- Food safe

Nominal capacity ml	Overall length mm	Colour	Sterile	PK	Cat. No.
10	360	white	+	10	4680831*LLG

Disposable spoons, long handle, PS



- Individually packed and sterilised
- Handle length 300 mm
- Cleanroom manufactured (cleanroom class 7)
- Food safe

Nominal capacity ml	Overall length mm	Colour	Sterile	PK	Cat. No.
5	355	white	+	10	4680819*LLG
20	375	white	+	10	4680821*LLG

LLG-Dispensing scoops, HDPE



For heavy industrial use.
Food safe.

Capacity ml	Length mm	PK	Cat. No.
250	250	5	4682197*LLG
500	300	5	4682198*LLG
1000	350	5	4682195*LLG
1500	400	5	4682196*LLG

Multi-purpose beakers with screw cap, PP



Transparent, with red screw cap. Non-sterile or sterile. Sterile beakers are single packed. Ideal beaker for sampling and storing of solid, muddy and liquid samples.

Nominal capacity ml	Sterile	Ø with Cover mm	Height mm	Material	PK	Cat. No.
30	-	43	47	PP	1000	9401860*LLG
60	-	43	66	PP*	600	6260493*LLG
60	+	43	66	PP*	500	6258714*LLG
120	-	63	73	PP*	500	6803183*LLG
120	+	63	73	PP*	250	6093728*LLG
200	+	64	80	PP	150	6262099*LLG
200	-	64	80	PP	200	6261429*LLG

*with graduation and labelling area

Precision balances PR



The precision balances PR combine the basic weighing functions, piece counting and percent weighing with competitive performance, providing high accuracy and repeatability for laboratory, industrial and educational applications.

- Backlit LCD display
- 4 quick keys for easy operation of multiple weighing modes
- Detachable stainless steel weighing platform
- Auto-tare
- Overload, underload and stability indicator
- With internal calibration

Specifications

Permissible ambient temperature:	10 ... 30 °C
Weighing plate (Ø):	180 mm
Dimensions (W x D x H):	201 x 317 x 93 mm
Weight:	3.5 kg
Power supply:	100 ... 240 V, 50/60 Hz

Type	Weighing range	Readability	Reproducibility	PK	Cat. No.
	g	g	g		
PR4202	4200	0.01	0.01	1	4668286*LLG

Precision balance EHA



The compact all-round model for laboratory, industry and teaching.

- Large, shock proof weighing plate made from stainless steel
- Simple and convenient 5-key operation
- Adjusting program CAL for quick setting of the balance accuracy
- Battery operation
- Universal mains adapter EU, GB

Type	Capacity	Readability	Reproducibility	PK	Cat. No.
	g	g	g		
EHA 500-2	500	0,01	0,03	1	4671682*LLG
EHA 500-1	500	0,1	0,3	1	4671681*LLG
EHA 1000-1	1000	0,1	0,3	1	6318036*LLG

Analytical balance type ACJ



- **Single cell weighing system**
- **Short settling time**
- **Stable temperature behavior**

The bestseller in analytical balances, now with high-quality single-cell weighing system.

- With EC type approval, integrated RS-232 and USB data interface
- Automatic internal adjustment in the case of a change in temperature >2 °C or time-controlled every 4 hours
- Simple recipe weighing and documenting with a combined tare/print function
- Large LCD display, digit height 14 mm

Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: Steady weight values within approx. 3 sec under laboratory conditions

Specifications

Overall dimensions (W x D x H):	210 x 340 x 325 mm
Dimensions weighing space (W x D x H):	174 x 162 x 227 mm
Permissible ambient temperature:	10 ... 30 °C
Net weight:	approx. 6 kg

Type	Capacity	Readability	Reproducibility	PK	Cat. No.
	g	mg	± mg		
ACJ 100-4M	120	0,1	0,2	1	6316869*LLG
ACJ 200-4M	220	0,1	0,2	1	4680330*LLG

Balance bench with granite slab



Dimensions (W x D x H):	768 x 648 x 800 mm (height adjustable)
Dimensions granite slab (W x D x H):	410 x 270 x 115 mm
Net weight:	approx. 55 kg

Description	PK	Cat. No.
Balance bench with granite slab	1	6262477*LLG

LLG-Timer Triple pro



The LLG-Timer Triple pro offers three separate timers in one instrument. One time can be stored per channel. This Timer can be used simultaneously as real time clock and timer. The countdown timer also runs when time is visible.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch and countdown up to 23 h 59 min. 59 sec.
- Optical and acoustic alarm when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 68 x 88.7 x 16.2 mm
Weight (with battery): 87 g
Power supply: 2 x AAA 1.5 V (not included)

Type	PK	Cat. No.
LLG-Timer Triple pro	1	6313417*LLG

LLG-Dual-Timer, 2-channel



The LLG-Dual-Timer offers two separate timers in one instrument. One fixed time can be stored per channel.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch with tenths of a second
- Stopwatch and countdown up to 99 h 59 min. 59 sec
- Optical (red LED) and acoustic alarm (2 volume levels), when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 97 x 79 x 21 mm
Weight (with battery): 95 g
Power supply: 2 x AAA 1.5 V (not included)

Type	PK	Cat. No.
LLG-Dual-Timer	1	6311350*LLG

LLG-Timer pro



The LLG-Timer pro can be used simultaneously as real time clock and timer. The countdown timer also runs when time is visible.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch and countdown up to 23 h 59 min. 59 sec.
- Optical and acoustic alarm when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 82 x 68 x 20.5 mm
Weight (with battery): 82 g
Power supply: 2 x AAA 1.5 V (not included)

Type	PK	Cat. No.
LLG-Timer pro	1	6311351*LLG

LLG-Timer Cube

With 4 pre-set countdown times. Place the cube with the desired time facing up and the counting down starts immediately.



- Pulsing LED when timer is counting
- Automatically rotating flip display shows the remaining time
- After expiration, the elapsed time is displayed until the alarm ends
- Optional pre-alarm shortly before time expires



Dimensions (W x H x D): 60 x 60 x 60 mm
Weight: 58 g
Power supply: 2 x 1.5 V AAA (not incl.)

Type	Description	PK	Cat. No.
LLG-Timer Cube	5-15-30-60 minutes	1	6291217*LLG

Alkaline Batteries, Energizer® Industrial

Best performance for industrial, medical and laboratory applications.



Type	Volt	PK	Cat. No.
LR03/EN92/AAA/Micro	1.5	10	9012944*LLG

Piston pump LLG-uniVACUUPUMP 1



Can also be used as a compressor

The portable piston pump LLG-uniVACUUPUMP 1 has been developed for vacuum and pressure applications in the laboratory. The LLG-uniVACUUPUMP 1 operates oil-free and can also be used as a compressor to a pressure up to 3.3 bar. This allows you, for example, pressure filtration, if vacuum filtration is not sufficient. Not recommended for pumping organic, acidic, or basic vapours.

- Dry-running technology for physical applications
- Can be used as a vacuum pump and compressor

Specifications

Pump speed 50/60 Hz at atmospheric pressure:	9.2/11 l/min
Final pressure:	292 mbar
Max. overpressure:	3.3 bar
Max. operating gas temperature:	60 °C
Permissible ambient temperature:	10 ... 40 °C
Suction/pressure connection:	DN 6
Noise emission:	<45 dB(A)
Motor power:	25 W
Dimensions (W x D x H):	194 x 114 x 191 mm
Weight:	2.0 kg
Power supply:	230 V/50 Hz
IP code:	IP 20
Warranty:	3 years

- Cost-effective alternative for water pumps
- Oil-free, suitable for continuous operation
- Suction/pressure connection: hose nozzle DN 6 for hose inner diameter 6 mm

Scope of supply: Pump, incl. 2 hose clamps, EU + UK-plug power cord



Type	PK	Cat. No.
LLG-uniVACUUPUMP 1	1	6263580*LLG

Rotary vane pump CRVpro 2/4/6/8

The Welch CRVpro pumps are high-performance two-stage vacuum pumps.

- Cool running operation for less oil consumption
- Coated oil case to slow metal corrosion
- Extended oil change intervals for less maintenance costs
- Dual voltage

Scope of supply: Every pump is supplied complete with vacuum pump oil, centering rings, clamping rings and motor overload protection.



CRVpro 2



Specifications

Ultimate pressure without gas ballast partial:	3×10^{-4} mbar
Ultimate pressure without gas ballast total:	3×10^{-3} mbar
Ultimate pressure with gas ballast total:	9×10^{-2} mbar
Connection:	DN 16 KF
Motor rating 50/60 Hz:	0.29/0.3 kW
Nominal speed 50/60 Hz:	1440/1720 rpm
Dimensions (L x W x H):	384 x 138 x 211 mm
Weight:	15 kg

CRVpro 4/6/8



Specifications

Ultimate pressure without gas ballast partial:	5×10^{-4} mbar
Ultimate pressure without gas ballast total:	2×10^{-3} mbar
Ultimate pressure with gas ballast total:	7×10^{-2} mbar
Connection:	DN 16 KF
Motor rating 50/60 Hz:	0.37/0.4 kW
Nominal speed 50/60 Hz:	1450/1740 rpm
Dimensions (L x W x H):	463 x 157 x 230 mm

Type	Suction rate (50/60Hz) L / min.	Oil capacity ml	Plug type	PK	Cat. No.
CRVpro 2	38/47	450	EU, UK	1	6313234*LLG

Type	Suction rate (50/60Hz) L / min.	Oil capacity ml	Weight kg	Plug type	PK	Cat. No.
CRVpro 4	63/77	1150	21.0	EU, UK	1	6290993*LLG
CRVpro 6	85/122	1150	22.0	EU, UK	1	6290994*LLG
CRVpro 8	122/143	1000	22.5	EU, UK	1	6290995*LLG

LLG-Vacuum measuring instrument DVR 2 pro

Versatile vacuum gauge for vacuum measurement between atmospheric pressure and 1 mbar. With integral, alumina ceramic, pressure transducer providing excellent corrosion resistance and long-term stability.



- Mains independent due to battery operation
- Large display
- High measuring accuracy
- Optimal menu navigation
- With support rod
- All parts in contact with media are made of chemically resistant materials



DKD initial delivery calibration
(Cat. No. 7.059 540) please order separately.

Scope of supply: Vacuum measuring instrument with connections for small flange D16, compression fitting and tubing nozzle for tubing with 6 to 10 mm ID.

Specifications

Measuring range:	1080 to 1mbar (hPa), 810 to 1 Torr
Measurement principle:	Capacitive; gas type-independent absolute pressure measurement
Measuring accuracy:	< 1mbar (0.75 Torr) ±1 digit
Power supply/battery:	9 V battery
Dimensions (W x D x H):	115 x 115 x 66 mm
Weight:	0.40kg

Type	PK	Cat. No.
DVR 2 pro	1	6263582*LLG

Nessler Tube, without spout, borosilicate 3.3



For use, for example, with the Nessleriser systems from Lovibond®.

Description	Capacity ml	Dimensions (dia. x H) mm	PK	Cat. No.
tall form, graduated at 50 ml	50	20 x 300	1	9170621*LLG
tall form, graduated at 100 ml	100	24 x 375	1	9170622*LLG
short form, graduated at 50 ml	50	25 x 175	1	9170623*LLG
short form, graduated at 100 ml	100	32 x 200	1	9170624*LLG

Color Standards Platinum-Cobalt (Hazen)



These color standards can be used to calibrate, control, qualify, validate color measurement of instruments to determine the color number. These standards can be described as Platinum-Cobalt, Pt-Co, Hazen or APHA color. All descriptions are interchangeable.

- Covers requirements of ASTM Method D 1209
- In 1 l HDPE bottle

Description	PK	Cat. No.
Pt-Co Hazen 0	1	HAZ0*REA
Pt-Co Hazen 5	1	HAZ5*REA
Pt-Co Hazen 10	1	HAZ10*REA
Pt-Co Hazen 15	1	HAZ15*REA
Pt-Co Hazen 20	1	HAZ20*REA
Pt-Co Hazen 25	1	HAZ25*REA
Pt-Co Hazen 30	1	HAZ30*REA
Pt-Co Hazen 40	1	HAZ40*REA

Comparator EC 2000 PT CO



With the EComparator series, viewers can view the colour difference with on-screen colour and on-screen numerical display. Touch screen technology makes the EComparator easily programmable with instinctive menus on screen. Users can set language, date and time, view preferences and create projects with individual tolerance settings "within tolerance" (green), "outside tolerance" (red) and "on border of tolerance" (amber) to provide the user with immediate information on the sample.

- Instant and accurate, ready for immediate use
- Guaranteed agreement with international standards
- Results shown on display optional as colour or numeric value
- Digital, mobile technology at the press of a button
- Instant reporting from the laboratory or on site

The EC 2000 range provides users with a Two Field View visual representation in alignment with the popular Lovibond® Comparator 2000+ system widely used today.

EC 2000 PT CO: Platinum-Cobalt/Hazen/Apha Colour (ASTM D 1209)/ True Colour Units (TCU). Water, clear oils, chemicals and petrochemicals.
Incl. cells (3 x 50 mm W100 plastic) and (1 x 50 mm W100 OG)

Scope of supply: Liquid reference standards and 1 glass standard.

Type	Measuring range	PK	Cat. No.
EC 2000 PT CO	0 - 500	1	6282213*LLG

Cells W600



Cells made of optical glass or Borosilicate glass 3.3, 21 mm x 40 mm, for instrument Models Fs, PFXi/PFX195, 880, 950 and 995.
(Note: PFXi/PFX-195 max. path length 50 mm).

W600/OG/xx for unheated samples (up to 40 °C)
W600/B/xx for heated samples (up to max. 100 °C)

Further versions available on request.

Type	Path length	Material	PK	Cat. No.
	mm			
W600/OG/100	100	optical glass	1	6235055*LLG
W600/OG/5¼"	133.35	optical glass	1	9947343*LLG
W600/B/100	100	Borosilicate glass 3.3	1	6253940*LLG
W600/B/5¼"	133.35	Borosilicate glass 3.3	1	9947345*LLG

Spectrophotometer BioDrop DUO




- **Ideal for DNA, RNA and protein measurements**
- **Minimal sample volume of only 0.5 µl**
- **10 mm-cuvette port on top**

Biodrop Duo is a service-free bench-top instrument with a cuvette holder and a micro-volume sample port. The port enables absorption measurements in just 0.5 µl sample volume without cuvettes. Ideal for rapid serial measurements of DNA, RNA or proteins. The cuvette holder offers the possibility for measurements with larger volumes with conventional 10 mm cuvettes. The instrument has a large colour touchscreen and preprogrammed applications for the measurement of DNA, RNA, oligos and proteins. Generated data can be stored internally or transferred from the instrument using a USB flashdrive. The photometer can be operated with a PC and the supplied BioDrop Resolution Software via a USB connection.

- Micro-volume sample port for minimum sample volume
- High-resolution, colour touchscreen
- Software package with preprogrammed methods for sample analysis
- USB connection for PC control and data export
- No calibration needed
- Easy cleaning of the sample port with a lint-free tissue

Specifications

Maximum concentration dsDNA:	2500 ng/µl
Detection limit:	1 ng/µl
Absorbance range:	0.3 to 2.5 A (0.3 A to 50 A, 10 mm equivalent)
Absorbance accuracy:	±0.005 A or 1 % of the reading, whichever is the greater at 546 nm
Spectral bandwidth:	5 nm
Stray light:	<0.5 %T at 220 nm and 340 nm using NaNO ₂
Wavelength range:	190 bis 1100 nm
Wavelength accuracy:	±2 nm
Light source:	Pulsed Xenon lamp
Dimensions (W x D x H):	260 x 420 x 185 mm
Weight:	3 kg
Power supply:	90-250 V, 50/60 Hz, max 50 VA

Description	PK	Cat. No.
BioDrop DUO	1	6313967*LLG

LLG-Cuvette rack, PP



Ideal for storing up to 16 cuvettes with 10 mm width. Two-tier arrangement of the cuvette rows ensures clarity.

- Numbered positions
- Autoclavable at 121 °C

Length	Width	Height	PK	Cat. No.
mm	mm	mm		
210	70	35	1	4682061*LLG

LLG-Cuvettes



LLG-Cuvettes are most frequently used in analytical laboratories. They have two clear windows, two side walls and they are available as optical glass or in quartz variants. The walls and the base are polished inside and frosted outside. The thickness of the windows and the base is 1.25 mm. The overall height of standard type cells is 45 mm or 48 mm for those fitted with a stopper. Each cuvette is supplied with a PTFE lid.

- Optical Glass: 335 to 2500 nm
- Quartz: 200 to 2700 nm

Type	Volume	Path length	PK	Cat. No.
	ml	mm		
quartz glass	3.5	10	2	4681513*LLG
quartz glass	17.5	50	2	4681514*LLG
optical glass	3.5	10	4	4681515*LLG
optical glass	17.5	50	4	4681516*LLG

Precision wipes, KIMTECH SCIENCE, 1-ply



Special wipe for cleaning work in sensitive areas of use. 1-ply, white. Anti-static.

Dimensions	Package contents	PK	Cat. No.
mm			
304 x 304	Carton of 25 boxes with 196 wipes	1	4682335*LLG

LLG-PCR-Tubes, 8 Strips with attached individual caps, PP



- For 0.2 ml Thermocycler blocks
- With domed or flat cap
- Made of high quality polypropylene, RNase-, DNase- and Endotoxin-free

Description	PK	Cat. No.
8 PCR tube strips with individually attached flat snap caps	126	6313405*LLG
8 PCR tube strips with individually attached domed snap caps	126	6313407*LLG
Domed caps for 8 PCR tube strips	125	6313406*LLG

LLG-PCR tubes with attached lids, PP



- Individual tubes
- Compatible with all common thermocyclers
- 0.2 ml or 0.5 ml
- Individual attached flat or domed snap caps
- Consistent wall thickness for uniform heat transfer
- Cap design ensures fit and helps reduce sample evaporation
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free

Description	PK	Cat. No.
0.2 ml, single, flat cap	1000	6313401*LLG
0.2 ml, single, domed cap	1000	6313402*LLG
0.5 ml, single, flat cap	1000	6313403*LLG

LLG-96-well PCR Plates, PP



- Clear well bottom for sample visibility, with V-Bottom
- Compatible with thermocyclers of all leading brands
- Consistent wall thickness for uniform heat transfer
- Holes in the skirt for easy handling
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free

Description	Capacity	PK	Cat. No.
	µl		
96 Well Plate, skirted	200	50	6313409*LLG
96 Well Plate, non-skirted	200	100	6313408*LLG
96 Well Plate, half skirted	200	50	6313394*LLG

LLG-PCR adhesive film and foil



For use in cyclers with screw-down or clip-down lids.

PCR Film: Clear film allows both the visual inspection of samples and fluorescence measurements.

PCR Foil: Aluminium, easy to pierce, no residue of adhesive on the pipette tips.

QPCR Foil: Adhesive seal optically clear, peelable, for QPCR and fluorescence applications.

Description	Temp. range °C	PK	Cat. No.
PCR film	-40 ... 102	100	6313398*LLG
PCR foil	-80 ... 104	100	6313400*LLG
QPCR foil	-70 ... 100	100	6313399*LLG

Thermocycler MultiGene™ OptiMax

Labnet
Labnet International, Inc.



Program PCR thermocycler unit is compact in design, programming is intuitive with the large display and multiple pre-programmed templates supplied with the unit.

- Flexible Programming with FlexTemp™ technology
- Fast ramp rates 5 °C heating/3.5 °C cooling
- No condensation after overnight cooling at 4 °C
- Individual temperature setting for each block
- Password protected programs
- Simple user interface
- With USB and RS232 interface

Specifications

Sample capacity:	1 x 96 well plate, 12 x strip tubes (8 x 0.2 ml), 96 x 0.2 ml tubes
Programmable temperature range:	4 °C ... 99.9 °C
Temperature control:	Calculated or block
Temperature accuracy/uniformity:	±0.5 °C/±0.5 °C
Heating/cooling method:	Peltier
Max. heating/cooling rate:	±5 °C/±3.5 °C per second
Temperature range of 6-segment blocks:	30 °C ... 99 °C (can be set independently)
Maximum temperature difference between 6-segment blocks:	±24 °C
Programmable lid temperature:	60 °C ... 65 °C, 100 °C ... 115 °C
Program memory:	200 complete programs
User program folders:	50 sets
Dimensions (W x D x H):	240 x 420 x 250 mm
Weight:	9 kg
Supply requirements:	230 V, 50/60 Hz*

Type	PK	Cat. No.
MultiGene™ OptiMax *120 V available on request	1	9595319*LLG

UV/PCR cabinets UVT-B-AR

grant^o



Bench-top models for protection against contamination during a variety of DNA/RNA procedures.

- Patented high intensity UV air cleaner, 25 m³/hour cleaner-recirculator continuous air flow with 1 cm UV irradiation distance
- UV lamp in the upper hood disinfects the working area, inactivating DNA/RNA fragments during 15-30 min of exposure
- Convenient, easy to use digital timer for accurate control of UV exposure
- White lamp provides local illumination of the workplace to optimise visual control during operations
- Shock proof glass panels, metal framework and stainless steel work surface
- Automatic switch-off of open UV light when door opened

Type	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
UVT-B-AR, with internal socket	690 x 585 x 555	32	1	9721070*LLG

LLG-Agarose Standard

NEW

LLG
LABWARE



LLG-Agarose is ideal for routine separation of DNA and RNA fragments, as well as PCR products with electrophoresis. High transparency and low background of the agarose gel ensures clear and sharply defined bands.

- Very good dissolution and rapid gel formation
- High gel strength even at low agarose concentrations
- Suitable for agarose concentrations from 0.75 up to 2 %
- Good separation efficiency for nucleic acid fragments between 250 bp and 23 kb
- Free of DNase and RNase

Appearance:	White powder
Clarity (NTU):	≤4 (1.5 % gel)
Gelling point:	36 ±1.5 °C (1.5 % gel)
Melting point:	88 ±1.5 °C (1.5 % gel)
Gel strength:	≥1000 g/cm ² (1 % gel)
Sulphate:	≤0.15 %

Capacity	PK	Cat. No.
g		
100	1	4681511*LLG
500	1	4681512*LLG

Colony counter schuett count

schuett-biotec.de



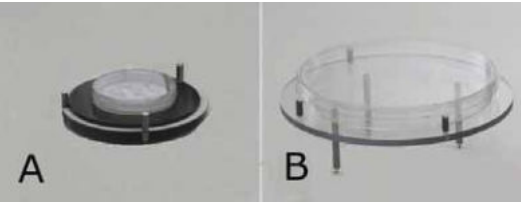
Designed for reliable and efficient counting of bacterial colonies and bacteriophage plaques growing on nutrient agar or nutrient discs/filter disks in Petri dishes. Provides ergonomic and relaxed working.

- For Petri dishes with Ø 90 mm
- Individually adjustable lighting, pressure sensitivity of the counter plate and volume
- LED lighting technology, absolutely glarefree and gentle on the eyes
- High colony transparency and differentiation (agar or nutrient discs/filter), even with transparent colonies
- Acoustic counter control (with volume control)
- 4-digit LED-display (0 - 9999), clearly arranged foil keypad
- Average count calculation, data transfer via USB to PC. Imported in Excel, for further processing, storage and printing

Scope of supply: For 90 mm dia. Petri dishes: adapter (transparent) for illumination from below, adapter (black/white) for illumination from side, contrast disc (black), USB-cable, marker-pen with holder.

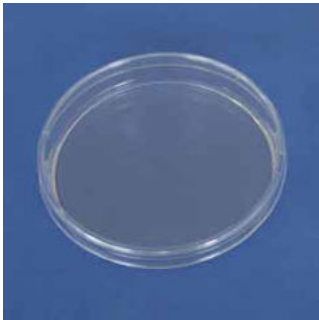
Type	PK	Cat. No.
Colony counter schuett count, 100-240 V	1	9521940*LLG

Accessories for schuett count Colony counter



Type	Figure	PK	Cat. No.
Magnifier 3 x (100 mm dia.)		1	9521941*LLG
Magnifier 6-8 x (60 mm dia.)		1	9521942*LLG
LED overhead lamp		1	9521943*LLG
Adapter for Petri dishes, 50 to 60 mm dia.	A	1	9521944*LLG
Adapter for Petri dishes, 140 to 150 mm dia.	B	1	9521945*LLG

LLG-Petri dishes, PS



Made of high quality optical clear polystyrene. Produced under aseptic conditions in an ISO 6 cleanroom. Contact plate with counting grid.

- With a smooth surface for an optimal distribution of the transport medium
- Stable thickness to prevent any deformations while using
- Stackable
- With or without vents
- Aseptic (90 mm diam.) or beta irradiated sterile versions (all sizes)
- Packed in sleeves á 10 dishes or 20 dishes (90 mm diam. dishes)

Ext. diam. mm	Description	Height approx. mm	PK	Cat. No.
90	with triple vents, aseptic	16	480	6285823*LLG
90	without vents, aseptic	16	480	6285824*LLG
90	with triple vents, sterile	16	480	6285816*LLG
90	without vents, sterile	16	480	6285817*LLG
60	with triple vents, sterile	14	1080	4678371*LLG
60	without vents, sterile	14	1080	4678372*LLG
55	contact plate, without vents, sterile	17	1000	6285821*LLG
150	with triple vents, sterile	19	140	4680144*LLG

Inoculating Turntable, aluminum



The manually operated turntable allows smooth and even rotation in both directions for easy and fast distribution of bacteria on the Petri dish surface. Due to the double-sided design, the turntable can accommodate Petri dishes from 60 to 150 mm in diameter. Non-slip stand.

Description	PK	Cat. No.
Inoculating Turntable	1	6286850*LLG

Hand tally counter



Use for counting blood cells, bacterial colonies, drops of liquid, or any repetitive event. Tallies up to 9999. Features a quick-reset knob, lens window for easy reading, and finger ring for a secure grip. Sturdy, chrome-finished, metal housing. Dimensions: 46 mm diam. x 41 mm W.

Description	PK	Cat. No.
Hand tally counter	1	6237971*LLG

Microscope slide boxes



Colour-coded for easy identification. Slide boxes are perfect for storage or transportation of standard size slides (76 mm x 26 mm). With cork lining. Stackable. Each 100 place box is secured with a rust-resistant nickel-plated clasp and hinge pin. The 50 place box is secured by a thumb-latch lock mechanism. Each slot is numbered to correspond to the slide inventory sheet on the inside cover of the box.

To hold microscope slides	Colour	Dimensions (W x D x H) mm	PK	Cat. No.
25	Green	141 x 88 x 35	1	6240819*LLG
50	Blue	209 x 86 x 35	1	9161300*LLG
100	Red	208 x 175 x 34	1	9161286*LLG
100	Green	208 x 175 x 34	1	9161285*LLG
100	Blue	208 x 175 x 34	1	9161284*LLG
100	White	208 x 175 x 34	1	7079563*LLG
100	Yellow	208 x 175 x 34	1	9161288*LLG
100	Black	208 x 175 x 34	1	9161287*LLG

Microscope Cleaning Kit



Content: 1 power blower, cotton swabs, cleaning liquid, cleaning cloth, lens cleaning paper, retractable brush

Type	PK	Cat. No.
Mikroskope Cleaning Kit	1	6280087*LLG

Binocular Microscopes for Schools/Laboratories B1-220E-SP/B1-223E-SP



Established Quality with a new design. The B1 series covers a wide range of the daily work for Laboratory and University use. The Elite Series with improved optics and mechanics enables efficient work for many years.

- Observation Tube Binocular 45°/Phototube 30°, 360° rotating
- Widefield eyepieces WF10X/18 mm
- Quadruple revolving nosepiece
- Semi-Plan objectives SP 4X, 10X, 40X S, 100X S-Oil
- Coaxial coarse and fine focusing system with tension adjustment
- Built-in low position coaxial rackless mechanical stage
- Focusable 1.25 N.A. Abbe condenser with iris diaphragm
- LED illumination 3 W with intensity control
- Power supply 100-240 V
- Dust cover and immersion oil

Type	Description	PK	Cat. No.
B1-220E-SP	Binocular	1	6284968*LLG
B1-223E-SP	Trinocular	1	6284969*LLG

LLG-Short Thread Vials ND9, wide opening



Capacity ml
o.d. x Height mm
Colour
PK
Cat. No.



1.5
11.6 x 32
clear
100
9003448*LLG



1.5
11.6 x 32
clear, labelling field
100
4662800*LLG



1.5
11.6 x 32
amber, labelling field
100
4662801*LLG

LLG-PP Short Thread Seals ND9, already assembled



	Caps	Septa	Hardness	Thickness	PK	Cat. No.
				mm		
 	blue, centre hole	Natural rubber, red-orange / TEF transparent	60° shore A	1	100	6266883*LLG
 	blue, centre hole	Red Rubber / PTFE beige	45° shore A	1	100	4008228*LLG
 	black, centre hole	Silicone white / PTFE red	55° shore A	1	100	4008225*LLG
 	blue, centre hole	Silicone white / PTFE blue, slit	55° shore A	1	100	4001521*LLG

Air valves for SCAT SafetyCaps

- Thread size UNF 1/4" 28G
- Luer Lock adapter
- PTFE Filter
- Valve membrane blocks vapours and opens at negative pressure
- It is recommended to replace the valve every 6 months



Type	Flow rate amount ml/min	PK	Cat. No.
Air valves 2.0 (refill pack of 8)	400	8	6318227*LLG
Air valves 2.0 (refill pack of 50)	400	50	4669377*LLG

Water, ultra pure



Water for a variety of applications in analytical chemistry.
H₂O - LF < 1 µS/cm - 0.4 µm, UV filtrated.



Type	Nominal capacity ml	PK	Cat. No.
Water, ultra pure	5000	1	4675028*LLG

b.safe-Caps, GL45, PPS

b.safe



Typ B

Screw cap for thread GL 45 made of PPS, freely turnable distributor body made of PTFE with female threads UNF 1/4" 28 G for connecting capillary tubing (O. D. 3.2 mm) or a b.safe air valve.

Scope of supply:

- Cap A:** 2 x connections, 1 x fitting (PFA), 1 x air valve
Cap B: 3 x connections, 2 x fittings (PFA), 1 x blind fitting (PFA), 1 x air valve
Cap C: 4 x connections, 3 x fittings (PFA), 2 x blind fittings (PFA), 1 x air valve

Type	Thread	PK	Cat. No.
A	GL 45	1	6313834*LLG
B	GL 45	1	6313835*LLG
C	GL 45	1	6313836*LLG

Capillary columns GC BPX5



5% Phenyl Polysilphenylene-siloxane. General purpose GC column for routine gas chromatographic analysis.

Suitable replacement for: DB-5, DB-5ms, DB-5.625, XTI-5, Rtx-5ms, Ultra-2, HP-5, HP-5MS, HP5-TA, SPB-5, MDN-5S, CP-Sil8CB, Rxt-Sil 5MS, AT-5ms, VB-5, ZB-5, VF-5ms.

- Very low bleed
- Non-polar
- Temperature range: -40 °C to 360/370 °C

Int. diam. mm	Length m	Film thickness μm	PK	Cat. No.
0.25	30	0.25	1	6089900*LLG
0.25	30	1.00	1	6226546*LLG
0.32	12	0.25	1	6204980*LLG
0.32	30	0.25	1	6205532*LLG
0.32	50	0.50	1	6205984*LLG
0.32	12	1.00	1	7635438*LLG
0.53	25	0.25	1	6313876*LLG

Ferrules for Perkin-Elmer GC



High quality ferrules made of 100 % graphite, for injectors and detectors at atmospheric pressure (not for GC-MS).



Column ID mm	Ferrule ID mm	PK	Cat. No.
0.1 - 0.32	0.5	10	9221284*LLG
0.45 - 0.53	0.8	10	9221285*LLG

Ferrules for Agilent GC



High quality ferrules made of 100 % Graphite or 15 % Graphite/85 % Vespel

Type A: 15 % Graphite/85 % Vespel, for injectors and detectors at atmospheric pressure (e.g. FID)

Type B: 15 % Graphite/85 % Vespel, for GC-MS interface connection

Type C: 100 % Graphite, for injectors and detectors at atmospheric pressure (not for GC-MS)



Type	Column ID mm	Ferrule ID mm	PK	Cat. No.
A	0.32	0.5	10	9221278*LLG
B	0.1 - 0.25	0.4	10	6088109*LLG
B	0.32	0.5	10	6059976*LLG
C	0.1 - 0.32	0.5	10	7652355*LLG
C	0.45 - 0.53	0.8	10	9221280*LLG

Inlet Liner for Perkin-Elmer GC



6206049*LLG



9003568*LLG

Inlet Liner for Perkin-Elmer Autosystem and Clarus 500, 600. SGE's inlet liners come as a complete, single packed unit.

- 5 or 25 packs, individually packed
- Complete with instrument appropriate o-rings and sealing rings
- Each pack supplied with quality test results

Description	Ext. diam. mm	Int. diam. mm	Length mm	PK	Cat. No.
Split / Splitless Focus Liner®	6.2	4	92.0	5	6206049*LLG
Split / Splitless Tapered Focus Liner®	6.2	4	92.0	5	9003567*LLG
Split / Splitless Focus Liner® for PSS Injector	4.0	2	86.2	5	9003568*LLG

Inlet Liner and O-rings for Agilent GC



6236751*LLG



6223553*LLG

Inlet Liner for Agilent 5890, 6850, 6890, 7890 and HP4890.

Trajan's SGE inlet liners come as a complete, single packed unit.

- 5 or 25 packs, individually packed
- Complete with instrument appropriate O-rings and sealing rings
- Each pack is supplied with quality test results

Description	Ext. diam. mm	Int. diam. mm	Length mm	PK	Cat. No.
Split, with Quartz wool	6.3	4	78.5	5	9003576*LLG
Split / Splitless with Single Taper	6.3	4	78.5	5	9003579*LLG
Split / Splitless with Single Taper (Quartz Wool)	6.3	4	78.5	5	6236751*LLG
Split/Splitless Tapered Focus Liner®	6.3	4	78.5	5	6223553*LLG

LLG-Safety Eyeshields *lady*



- CE approved to EN 166 and EN 170
- Panoramic wrapping lens
- 180° visual field
- Frame made of tested hypo-allergenic material
- Temples with rubber tips, adjustable in length and inclination
- Nosepad and terminal tips made from soft, moldable material for optimal comfort and individual customisation
- 100% UV protection (up to 400 nm)
- Weight only 25 g

Colour	Lens	PK	Cat. No.
white/green	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9006007*LLG
white/pink	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9006008*LLG

Overgoggles uvex 9161



- Designed to fit over prescription spectacles
- Unlimited side vision through super panorama lenses with a 180° field of view
- Excellent, pressure-free fit
- Effective indirect ventilation through special frame construction with side shields

Type	Colour	Lens	PK	Cat. No.
9161	transparent	transparent, PC lenses	1	9005166*LLG

Skin Protection Cream LINDESA® PROFESSIONAL with Beeswax



LINDESA® K PROFESSIONAL:
Quickly absorbed. The cream strengthens the skin's defence function, prevents skin damage caused by external stress and has a normalising effect on irritated skin areas without being greasy.

LINDESA® PROFESSIONAL:
Lightly greasy, quickly absorbed. The cream strengthens the skin's defence function, prevents skin damage caused by external stress and has a normalising effect on irritated skin areas. Smoothes and nourishes without leaving a lasting greasy residue.

LINDESA® PURE PROFESSIONAL:
like LINDESA® PROFESSIONAL but without preparation.

Capacity	Description	PK	Cat. No.
ml			
100	LINDESA® K PROFESSIONAL	10	6317296*LLG
50	LINDESA® PROFESSIONAL	10	4665408*LLG
100	LINDESA® PROFESSIONAL	10	4665407*LLG
100	LINDESA® PURE PROFESSIONAL	50	4682194*LLG

Eye-Wash Bottle, Barikos KS



According to DIN EN 15154-4. The water fillings have a shelf life of at least 2 years when sealed. With protective cap and tilt valve suitable for use with upright as well as downward spray head.

- pH-neutral water-based eye wash without chemical additives
- Ergonomically shaped eye recess

Description	PK	Cat. No.
Barikos KS, 620 ml, filled	1	9005009*LLG
Mini Barikos KS, 175 ml, filled	1	9005008*LLG

Disposable surgical Face Mask, Profil Plus



- Three layers of protection
- Soft elastic earloops
- Integrated nosepiece
- Latex free
- Nickel free
- EN 14683 Type II R, CE
- Box with 50 pieces

Colour	Width	Length	PK	Cat. No.
	mm	mm		
blue	95	175	50	6316058*LLG
white	95	175	50	6316059*LLG
green	95	175	50	6316060*LLG

Laboratory work coat 1656, for ladies and gentlemen, 100 % cotton

Made from 100 % cotton. Offers good protection against minor spills and droplets of acids and other chemicals.

- Boil-proof, chlorine-proof
- Fold down collar
- Concealed press stud placket
- Long sleeve
- 1 breast pocket
- 2 side pockets
- Back seam with practical walking slit



Material: Sanfor 100 % cotton diagonal twill
 Colour: white
 Weight: approx. 205 g/m²
 Length: approx. 103 cm (Size L)

Size	PK	Cat. No.
XS	1	9414320*LLG
S	1	9414321*LLG
M	1	9414322*LLG
L	1	9414323*LLG
XL	1	9414324*LLG
XXL	1	9414325*LLG

Respiratory protection mask FFP2



White, respiratory protection mask made of skin friendly non woven material with integrated nose clip and earloops.

- Made in EU
- 4 layers effective filtration system
- Protection level FFP2
- EN 149:2001+A1:2009

Type	Protection-level	PK	Cat. No.
Respiratory protection mask	FFP 2	2	4680572*LLG

LLG-Disposable Bouffant Caps, PP



PP nonwoven 10 g/m², universal fit Ø 52 cm, with all-around elastic, latex-free

Colour	PK	Cat. No.
white	100	6282789*LLG
blue	100	6282790*LLG

Adhesive Mats Sticky Mat



The Sticky Mat provides a fast, convenient, reliable way to clean shoe soles or other items before entering a clean and sanitary area. Sticky Mats significantly reduce traffic-borne contaminants.

Ergomat White Sticky Mats are produced in an 46 x 114 cm sheet, sold in pads of 30 sheets, with 10 pads per box (300 sheets total.)

Description	Colour	PK	Cat. No.
Frame for Cleanroom mats Sticky Mat	grey	1	6272245*LLG
1 mat of 30 sheets	white	10	6272241*LLG
1 mat of 30 sheets	blue	10	6272242*LLG
Set of 10 mats of 30 sheets + 1 frame	white	1	6272243*LLG
Set of 10 mats of 30 sheets + 1 frame	blue	1	6272244*LLG

Cleanroom Gloves AdvanTech 529, nitrile

EN ISO 374-1

Type B

EN ISO 374-5

EN 421



Reinforced mechanical resistance for short-term operations. Manufacturing process guarantees a very low level of contaminants: rates of particles, powder-free, non-volatile residue, extractables; compatible with ISO 5 class (Class M3.5 for International system). 100% nitrile formula enables anti-static properties. Protection against accidental chemical splashes. Thickness: 0.1 mm. Packaging: 100 gloves/bag.

Cat. III
According to EN ISO 374-1:2016/Type B,
EN ISO 374-5:2016, EN 421

Size	Length	PK	Cat. No.
	mm		
6	300	100	6270501*LLG
7	300	100	6270502*LLG
8	300	100	6270503*LLG
9	300	100	6270504*LLG
10	300	100	6270505*LLG

Cleanroom Wipes Sontara® MicroPure, polyester/cellulose



Specially designed for use in cleanrooms. The fleece combines the absorbency of natural fibres with the purity and strength of a synthetic material. Neither binders nor chemicals are used in the production process.

Type	Dimensions	Cleanroom Class ISO	PK	Cat. No.
	mm			
Sontara® MicroPure 100	305 x 305	5 + 6	150	9390185*LLG
Sontara® MicroPure 100	224 x 224	5 + 6	300	9390186*LLG
Sontara® MicroPure AP	305 x 305	6 - 9	150	9390187*LLG
Sontara® MicroPure AP	224 x 224	6 - 9	300	9390188*LLG
Sontara® MicroPure SV	305 x 305	7 - 9	250	9390189*LLG
Sontara® MicroPure SV	224 x 224	7 - 9	500	9390190*LLG

Sampling spoons, PS, sterile, double bagged



White. Ideal for sampling in multi-zone-clean rooms. Long handle reduces the risk of direct contact with the sample substance.

- Individually sealed
- Gamma sterilised
- Food-safe
- Lot stamped for accurate lot tracing
- Shipped with a Certificate of Processing for Sterilization
- Made from FDA grade materials



SAL value: 10^{-6}

Capacity	PK	Cat. No.
ml		
1.25	10	4679503*LLG
2.46	10	4679504*LLG
4.93	10	4679505*LLG
14.79	10	4679506*LLG

Sterilisers STERI



- Made in Switzerland
- Space saving quick sterilizer

Keller
swiss wellness company



The STERI second sterilisers permit instant disinfection and sterilization of all small instruments directly at the workplace. Especially suitable for laminar flow cabinets. Biological investigations and tests prove that the 250 °C temperature maintained in the glass bead container guarantees complete destruction of all micro-organisms and spores within a few seconds.

- For perfect hygiene directly at the workplace
- A guaranteed Swiss quality product

STERI 250: Steriliser incl. plain metal cover, glass-cup and glassbeads (150 g). Suitable for small instruments, as well as for short and medium length instruments (scissors, tweezers, forceps, knives, blades, spatulas, etc.).

STERI 350: Steriliser incl. plain metal cover and glassbeads (300 g). Especially suitable for medium sized and longer instruments.

Type	Filling quantity	External dimensions (W x D x H) mm	Plug type	PK	Cat. No.
	g				
STERI 250	150	125 x 140 x 145	EU	1	6286282*LLG
STERI 350	300	125 x 140 x 205	EU	1	6286284*LLG

Indicator tape for steam, hot air and gas sterilisation



Crepe paper, adhesive. With indicator.
Colour changes according to DIN EN ISO 11140-1.
Rolls of 50 m.

With	colour change	Width mm	Figure	PK	Cat. No.
Steam indicator, lead free	green / black	18	a	1	9140787*LLG
Steam indicator, lead free	green / black	24	a	1	9140788*LLG
Steam indicator	green / black	19	b	1	9140784*LLG
Steam indicator	white / black	25	b	1	9140789*LLG
Steam indicator, strongly adhesive, for non-woven fabric	white / black	19	c	1	9140790*LLG
Hot air indicator	green / brown	19	e	1	6240223*LLG

Microcentrifuge Prism™/Prism™ R



Prism™



Prism™ R

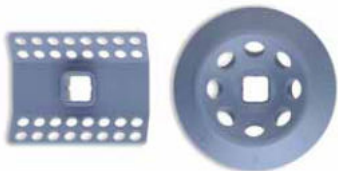
Operation can be timed, continuous or momentary, using the "quick" button. Vibration free operation is ensured by an isolation system. In the event of a significant imbalance, operation of the centrifuge is automatically stopped.

Specifications

Max. RCF	
Prism™:	21200 xg
Prism™ R:	17135 xg
Max. speed	
Prism™:	500 ... 15000 rpm
Prism™ R:	500 ... 13500 rpm
Max. capacity:	24 x 1.5/2.0 ml
Cooling temperature	-10 ... 40 °C
Prism™ R:	
Timer:	0.5 ... 99 minutes or continuous, "Quick" button for momentary operation
Power consumption	
Prism™:	210 W
Prism™ R:	500 W
Dimensions (W x D x H)	
Prism™:	240 x 350 x 190 mm
Prism™ R:	277 x 450 x 247.5 mm
Weight	
Prism™:	9.6 kg
Prism™ R:	20 kg
Power supply:	230 V, 50 Hz or 120 V, 60 Hz

Description	PK	Cat. No.
Prism™ ambient microcentrifuge with 24 place rotor	1	9945795*LLG
Prism™ R ambient microcentrifuge with 24 place rotor and cooling	1	9945793*LLG

Mini Centrifuge Prism™ Mini



Maximum speed of 6000 rpm. Equipped with an electronic brake and a self-opening lid, the centrifuge can be slowed down and opened quickly, reducing operating times. The maintenance-free drive of the Prism™ Mini has excellent ventilation to protect temperature-sensitive samples.

- Quick release rotor exchange
- Increased sample capacity
- Rapid sample processing
- One-step sample retrieval

Scope of supply: Mini Centrifuge incl. 8 place tube rotor for 1.5/2.0 ml microcentrifuge tubes, incl. adapters for 0.5 ml and 0.4 ml tubes and PCR strip rotor for 4 strips with 8 x 0.2 ml tubes or 32 x 0.2 ml single tubes.

Specifications

Max. RCF:	2000 x g
Max. speed:	6000 rpm
Max. capacity:	8 x 1.5/2.0 ml or 4 strips with 8 x 0.2 ml
Power consumption:	5 W
Dimensions (W x D x H):	132 x 132 x 112 mm
Weight:	0.55 kg
Power supply:	230 V, 50/60 Hz

Type	PK	Cat. No.
Mini Centrifuge Prism™ Mini	1	9945789*LLG

LLG-Microcentrifuge tubes, PP



Certified DNase-, RNase- and pyrogen-free. Clear, in bags. Suitable for microbiology. Guaranteed metal-free.

Centrifugation

Fixed angle rotor:	25000 x g
Swing out rotor:	70000 x g

Form	Volume	Max.	PK	Cat. No.
	ml	rcf		
conical	0.5	20000	1000	9409023*LLG
conical	1.5	25000	1000	9409024*LLG
round	2.0	25000	1000	9409025*LLG

Magnetic stirrer C-MAG HS 7 control



The magnetic stirrer C-Mag HS 7 control has a square top made of ceramic which offers excellent chemical resistance. Control of kinetics and sensitive reactions are supported by the integrated timer and counter function.

- Alteration of the stirring direction possible
- Clearly arranged LCD display
- Temperature control directly in the media with PT1000 temperature sensor
- Adjustable safety circuit up to 650 °C
- IKA SmartTemp® hot surface warning to prevent burns
- Elevated control panel for protection against leaking liquids
- Timer
- USB/RS232 interface

Scope of supply: Magnetic stirrer incl. Temperature sensor PT1000

Specifications

Max. stirring quantity (H ₂ O):	20 l
Motor rating input/output:	20 W/9 W
Speed range:	50 to 1500 rpm
Max. stirring bar length:	80 mm
Heat output:	1000 W
Heating rate (1l H ₂ O):	5 K/min
Temperature range:	ambient + 5 to 500 °C
Heat control accuracy at 100 °C:	±5 K
Safety circuit:	100 to 650 °C
Connection for ext. temp. sensor:	PT1000, ETS-D5, ETS-D6
Control accuracy with sensor PT1000, ETS-D5/ETS-D6:	±0.5 K/±0.2 K
Set-up plate Material:	ceramic
Set-up plate Dimensions (W x D):	180 x 180 mm
Protection class acc. to DIN EN 60529:	IP 21
Overall dimensions (W x D x H):	220 x 354 x 88 mm
Weight:	4 kg
Power supply:	220-230/ 115/100 V, 50/60 Hz

Type	PK	Cat. No.
C-MAG HS 7 control	1	6288285*LLG

Multi-position magnetic stirrer MULTISTIRRER Digital



Steel housing and stainless steel installation surface. Bright LED display for accurate speed monitoring and timer for unattended operation.

- The device remains cold even in continuous operation
- Synchronous speed of all stirring positions
- Adjustable, time-controlled auto-reverse function
- Torque compensation to keep the speed constant in case of viscosity changes
- Gentle start-up
- Electronic speed control
- Speed adjustable in 10 rpm steps
- Also suitable for use with water baths
- Light weight

Specifications

Max. volume each (H ₂ O):	400 ml // 250 ml
Power rating:	3.6 W // 15.9 W
Speed range:	80 ... 1500 rpm
Number of stirring positions:	6 // 15
Distance between stirring positions:	100 mm // 74 mm
Display:	Digital
Stirring positions:	Ø 85 mm // Ø 64 mm
Timer:	1 ... 900 min
Auto reverse:	5 ... 900 min
Dimensions (W x D x H):	230 x 370 x 51.5 mm
Weight:	1.75 kg // 2.1 kg
Power supply:	100 ... 240 V, 50/60 Hz

MULTISTIRRER Digital 6 // Digital 15

Max. volume each (H ₂ O):	400 ml // 250 ml
Power rating:	3.6 W // 15.9 W
Speed range:	80 ... 1500 rpm
Number of stirring positions:	6 // 15
Distance between stirring positions:	100 mm // 74 mm
Display:	Digital
Stirring positions:	Ø 85 mm // Ø 64 mm
Timer:	1 ... 900 min
Auto reverse:	5 ... 900 min
Dimensions (W x D x H):	230 x 370 x 51.5 mm
Weight:	1.75 kg // 2.1 kg
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
MULTISTIRRER Digital 6	1	4666681*LLG
MULTISTIRRER Digital 15	1	4666682*LLG

Magnetic stirrer myPlate



Thanks to the interchangeable frame the image template provided can be exchanged easily through a personal image.

Specifications

Stirring volume (H ₂ O):	1.5 l
Speed range:	0 ... 2000 rpm
Permissible ambient temperature:	5 ... 40 °C
Permissible relative humidity:	80 %
Material:	Glass
Dimensions Top plate (Ø):	135 mm
Dimensions (W x D x H):	150 x 160 x 30 mm
Weight:	500 g
Supply requirements:	100 ... 240 V
Protection class acc. to DIN EN 60529:	IP 54



Type	PK	Cat. No.
myPlate	1	4665612*LLG

LABORTOPS

Digital Vortexer LLG-uniTEXER 4

Compact vortexer with brushless motor and infinitely variable speed control up to 4200 rpm for optimal mixing results. The digital display alternately shows the set speed and time.

- Programmable Pulse mode
- 3-way switch (on/off/touch)
- Timer adjustable from 1 min up to 999 min

Scope of supply: Vortexer, conical tube attachment, round disk attachment, universal plug

Specifications

Type of movement:	Orbital
Orbital diameter:	4 mm
Speed range:	300 ... 4200 rpm
Dimensions (W x D x H):	205 x 136 x 138.5 mm
Weight:	2.8 kg
Power supply:	110 ... 240 V, 50/60 Hz
IP code:	IP 42
Warranty:	3 years



6263503*LLG



6263504*LLG



6263505*LLG



- High speed up to 4200 min⁻¹
- Variable speed control
- Robust and non-slip!

Type	PK	Cat. No.
LLG-uniTEXER 4	1	6263500*LLG

Accessories for Digital Vortexer LLG-uniTEXER 4

Description	PK	Cat. No.
96-well micro plate attachment	1	6263503*LLG
Centrifuge tube attachment for 24 tubes 1.5/2 ml	1	6263504*LLG
Flask holder attachment for 250 ml Erlenmeyer flask	1	6263505*LLG